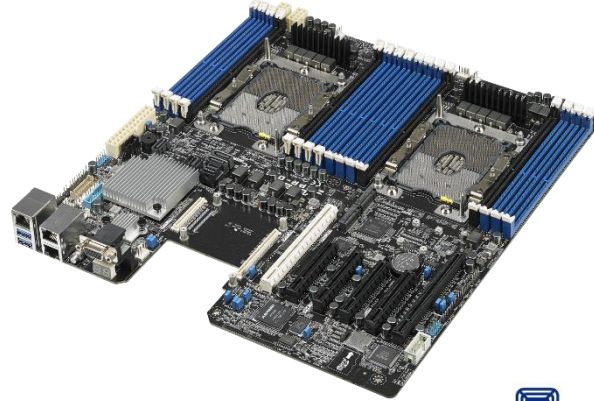


Z11PR-D16

Scalable server motherboard
with industry-leading 2TB memory capacity



CPU
Number

2



Memory
Number

16



SATA
6Gb/s ports

11

Z11PR-D16 is built on the latest 2nd Gen Intel Xeon Scalable processors to deliver higher per-core performance and six memory channels that provide 50% more memory bandwidth and capacity for 1.33X faster average system-level performance compared to previous-generation processors.

FEATURE

- 150W CPU with 16 DIMM support
- Dual M.2 support
- 6 x PCIe + 1 x OCP Expansion Slots in 2U
- Rack-optimized Design

Industry-leading memory capability

With 16 RAM slots that support up to 2TB of fast, DDR4-2666MHz 3DS ECC RDIMMs or LRDIMMs, the Z11PR-D16 server motherboard delivers industry-leading memory capability for your business.

Dual M.2 SSD slots

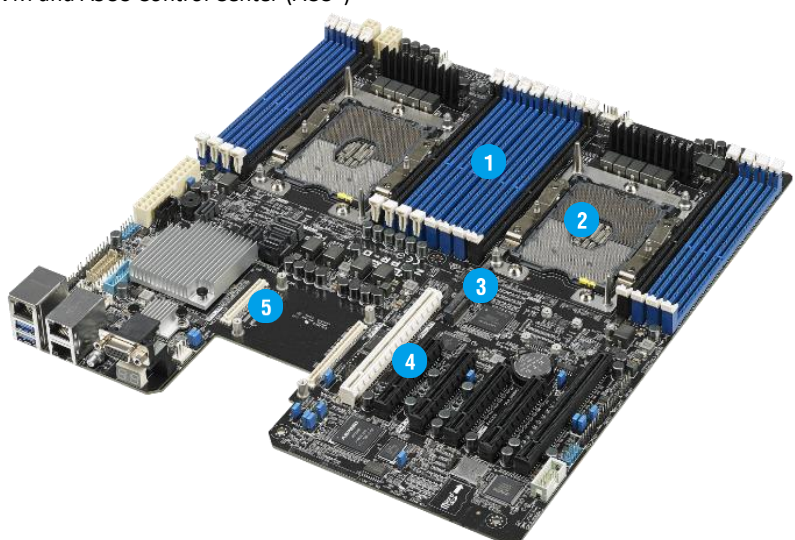
Z11PR-D16 features dual M.2 SSD slots which support two transmission interfaces: SATA and PCI-E Gen3 x4. Both interfaces could be set in RAID mode. In particular, in the mode of PCI-E RAID, it supports Intel® VROC technology. The disk array system with Dual M.2 can be used as the main system disk, and also can be used as memory caching to enhance the data access speed.

Rack-optimized thermal performance

With the CPU and memory configured in a front parallel design that enables efficient airflow for excellent thermal performance, Z11PR-D16 is optimized for rack placement.

Comprehensive IT infrastructure management solution

ASMB9-iKVM and ASUS Control Center (ACC*)



1. 16 x DIMM, DDR4-2933/2666/2400/2133, RDIMM, LRDIMM, LRDIMM 3DS
2. Intel® Xeon® Scalable Processor Family (150W)
3. Dual M.2 (NGFF), 2280/2260/2242
4. 2 x PCI-E x16 (Gen3 x16 link) / 4 x PCI-E x8 (Gen3 x8 link)
5. 1 x OCP 2.0 Mezzanine (Gen3 x16 link)

Z11PR-D16

SPECIFICATION

Processor Support.

2 x Socket P0 (LGA 3647)

1st and 2nd Generation Intel® Xeon® Scalable Processor Family (150W)
UPI 10.4 GT/s

Core Logic

Intel® C621 PCH

Memory

Total Slots

16 (6-channel per CPU, 8 DIMM per CPU)

Capacity

Maximum up to 4096GB

Memory Type

DDR4 2933 (1 DIMM per Channel)
DDR4 2666/2400/2133 RDIMM/LRDIMM/LRDIMM 3DS (2DIMM per Channel)

*Refer to Asus server AVL for the latest update

*if 2DPC, 2933MHz speed will drop to 2666MHz

Memory Size

4GB,8GB, 12GB, 32GB (RDIMM) / 64GB,128GB(RDIMM 3DS) / 32GB,
64GB,128GB(LRDIMM) / 64GB,128GB ,256GB(LRDIMM 3DS)

*Refer to Asus server AVL for latest update

Expansion Slots

**Total PCI/PCI-X/PCI-E/PIKE Slots
Slot Type**

Slot Location 1 : PCI-E x16 (Gen3 X16 Link)

Slot Location 2 : PCI-E x8 (Gen3 X8 Link)

Slot Location 3 : PCI-E x8 (Gen3 X8 Link)

Slot Location 4 : PCI-E x8 (Gen3 X8 Link)

Slot Location 5 : PCI-E x8 (Gen3 X8 Link)

Slot Location 6 : PCI-E x16 (Gen3 X16 Link)

Additional Slot 1 : OCP 2.0 module support (X16 Gen3 Link)

Disk Controller

SATA Controller

Intel® Lewisburg PCH

- 11 x SATA 6Gb/s ports (8 by 2 mini-SAS Connector)

- 2 x M.2 connector(SATA 6Gb/s & PCI-E Gen3 x4 link)

Intel® RSTe (Support software RAID 0, 1, 10 & 5)

Intel® VROC (for Windows only; Support software RAID 0, 1, 10 & 5)

SAS Controller

Optional kits:

ASUS PIKE II 3008 8-port SAS HBA card

ASUS PIKE II 3108 8-port SAS HW RAID card

12G SAS Support

Networking

LAN

1 x Dual Port Intel I350-AM2 Gigabit LAN Controller, 1 x Management Port

Graphic

VGA

Aspeed AST2500 with 64MB VRAM

On Board I/O

1 x TPM header

1 x PSU Power Connector (24-pin SSI power connector + 8-pin SSI 12V + 8-pin SSI 12V power connector)

1 x USB 3.0 pin header , Up to 2 Devices

2 x USB 2.0 pin header , Up to 4 Devices

9 x Fan Header , 4pin

1 x SMBus

2 x Chassis Intruder

2 x Front LAN LED

1 x Serial Port Header

1 x VROC Key Header

1 x Micro SD Card Slot

2 x M.2 Connector , NGFF Type : 2280/2260/2242

Back I/O Ports

2 x USB 3.0 ports

1 x VGA port

2 x RJ-45 GbE LAN ports

1 x RJ-45 Mgmt LAN port

Rear Switch/LED:

1 x Power switch

1 x Q-Code/Port 80 LED

1 x Message LED

1 x HDD LED

1 x Location LED

Management Solution

Software

ASUS Control Center (Classic)

Out of Band Remote Management

On-Board ASMB9-iKVM for KVM-over-IP

Form Factor

EEB (12"x13", 305mm x 330mm)

Environment

Operation temperature: 10°C ~ 35°C

Non operation temperature: -40°C ~ 70°C

Non operation humidity: 20% ~ 90% (Non condensing)